

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ,



Product designation Product type designation			Power contactor BF38
Contact characteristics			
Number of poles		Nr.	3
Rated insulation voltage Ui IEC/EN		V	690
Rated impulse withstand voltage Uimp		kV	6
Operational frequency			
	min	Hz	25
	max	Hz	400
IEC Conventional free air thermal current Ith		Α	56
Operational current le			
	AC-1 (≤40°C)	Α	56
	AC-1 (≤40°C) with 16mm² wire and fork end	lugA	60
	AC-1 (≤55°C)	Α	45
	AC-1 (≤55°C) with 16mm² wire and fork end	lugA	48
	AC-1 (≤70°C)	Α	40
	AC-1 (≤70°C) with 16mm² wire and fork end	_	42
	AC-3 (≤440V ≤55°C)	Α	38
	AC-4 (400V)	A	15.5
Rated operational power AC-3 (T≤55°C)			
	230V	kW	11
	400V	kW	18.5
	415V	kW	18.5
	440V	kW	18.5
	500V	kW	20
Dated energtional negues AC 1 (T<10°C)	690V	kW	22
Rated operational power AC-1 (T≤40°C)	230V	kW	21
	400V	kW	36
	500V	kW	45
	690V	kW	62
IEC max current le in DC1 with L/R ≤ 1ms wit		IXVV	<u> </u>
indication bot with Little tills with	≤24V	Α	35
	48V	Α	30
	75V	Α	23
	110V	Α	8
	220V	Α	_
IEC max current le in DC1 with L/R ≤ 1ms wit			_
	≤24V	Α	36
	48V	Α	34
	75V	Α	29
	110V	Α	32
	220V	Α	4
IEC max current le in DC1 with L/R ≤ 1ms wit	h 3 poles in series		
	≤24V	Α	36



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	48V	Α	34
	75V	Α	33
	110V	Α	34
	220V	Α	30
EC max current le in DC1 with L/R ≤ 1ms with 4 poles in series	2201	,,	
LO max ourient to in BOT with E/X = This with 4 poles in series	≤24V	Α	36
	48V	A	34
	75V	A	33
	110V	A	34
	220V		38
IFC may surrent to in DC2 DC5 with L/D < 15mg with 1 notes in series	220 V	A	30
EC max current le in DC3-DC5 with L/R ≤ 15ms with 1 poles in series	<04)/	۸	0.4
	≤24V	A	24
	48V	Α	20
	75V	Α	17
	110V	Α	2,5
	220V	Α	_
EC max current le in DC3-DC5 with L/R ≤ 15ms with 2 poles in series			
	≤24V	Α	28
	48V	Α	25
	75V	Α	22
	110V	Α	18
	220V	Α	3
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 3 poles in series			
	≤24V	Α	32
	48V	Α	28
	75V	Α	28
	110V	Α	23
	220V	Α	25
IEC max current le in DC3-DC5 with L/R ≤ 15ms with 4 poles in series			
	≤24V	Α	32
	48V	A	28
	75V	A	28
	110V	A	23
	220V		15
Short-time allowable current for 10s (IEC/EN60947-1)	220 V	A 	320
,		A	320
Protection fuse	.0 (150)		00
	gG (IEC)	A	63
	aM (IEC)	A	40
Making capacity (RMS value)		A	380
Breaking capacity at voltage			
	440V	Α	304
	500V	Α	240
	690V	Α	192
Resistance per pole (average value)		$m\Omega$	2
Power dissipation per pole (average value)			
	Ith	W	6
	AC-3	W	2.9
Tightening torque for terminals			
	min	Nm	2.5
	max	Nm	3
	min	Ibin	1.8
	max	Ibin	2.2
Tightening torque for coil terminal	· · · · ·	.~	_

Tightening torque for coil terminal





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			Niss	0.0
		min	Nm Nm	0.8 1
		max min	Ibin	0.8
		max	lbin	0.74
Max number of wires s	imultaneously connectable	IIIdX	Nr.	2
Conductor section	initialization control and con			
Corradotor Cocherr	AWG/Kcmil			
		max		6
	Flexible w/o lug conductor section			
	· ·	min	mm²	2.5
		max	mm²	16
	Flexible c/w lug conductor section			
		min	mm²	1
		max	mm²	10
	Flexible with insulated spade lug conduct	tor section		
		min	mm²	1
		max	mm²	10
Power terminal protect	ion according to IEC/EN 60529			IP20 when
Mechanical features				properly wired
Operating position				
Operating position		normal		Vertical plan
		allowable		±30°
Fixing		anowabic		Screw / DIN rail
Maight				35mm
Weight Conductor parties			g	424
Conductor section	AWG/kcmil conductor section			
	AVVG/RCMill conductor section	max		6
Operations		IIIdA		0
Mechanical life			cycles	20000000
Electrical life			cycles	1400000
Safety related data			0,0100	1100000
	od according to EN/ISO 13489-1			
	3	rated load	cycles	1400000
		mechanical load	cycles	20000000
Mirror contats according	ng to IEC/EN 609474-4-1			yes
EMC compatibility				yes
AC coil operating				
Rated AC voltage at 60)Hz		V	24
AC operating voltage				
-	of 60Hz coil powered at 60Hz			
	pick-up			
		min	%Us	80
		max	%Us	110
	drop-out			
		min	%Us	20
		max	%Us	55
AC average coil consu	•			
	of 60Hz coil powered at 60Hz			
		in-rush	VA	75
B	2000 5011	holding	VA	9
Dissipation at holding	≤20°C 50Hz		W	2.5
Max cycles frequency				





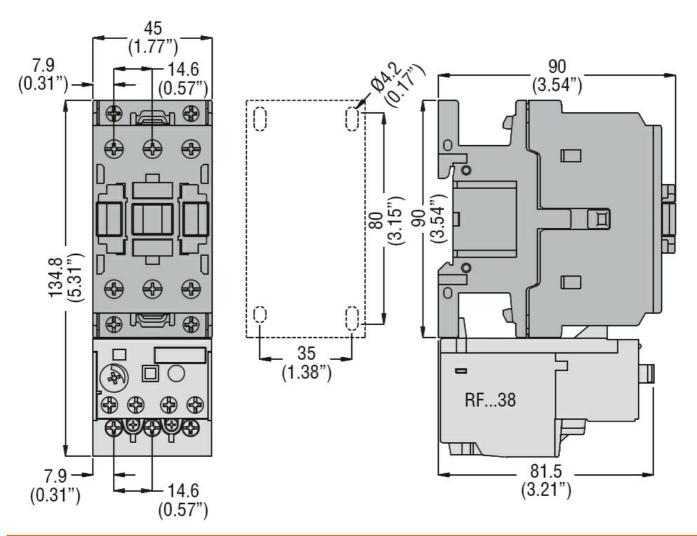
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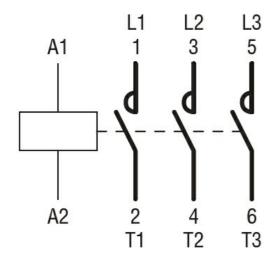
cycles/h 3600 Mechanical operation Operating times Average time for Us control in AC Closing NO 8 min ms 24 max ms Opening NO 5 min ms 15 max ms Closing NC 9 min ms max ms 20 Opening NC 9 min ms max 17 ms UL technical data Full-load current (FLA) for three-phase AC motor at 480V 40 Α at 600V Α 32 Yielded mechanical performance for single-phase AC motor 110/120V HP 3 230V HP 7.5 for three-phase AC motor 200/208V HP 10 220/230V HP 15 460/480V HP 30 575/600V HP 30 General USE Contactor AC current 55 Α Short-circuit protection fuse, 600V High fault Short circuit current kΑ 100 Fuse rating Α 100 Fuse class J Standard fault Short circuit current kΑ 5 Fuse rating Α 150 Ambient conditions Temperature Operating temperature °C -50 min °C 70 max Storage temperature °C -60 min °C 80 max Max altitude m 3000 Resistance & Protection Pollution degree 3 **Dimensions**

ENERGY AND AUTOMATION

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ,



Wiring diagrams



Certifications and compliance

Compliance

CSA C22.2 n° 60947-1

CSA C22.2 n° 60947-4-1

IEC/EN/BS 60947-1

IEC/EN/BS 60947-4-1

UL 60947-1



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AC switching

THREE-POLE CONTACTOR, IEC OPERATING CURRENT IE (AC3) = 38A, AC COIL 60HZ,

	UL 60947-4-1	
Certificates		
	CCC	
	cULus	
	EAC	
ETIM classification		
		EC000066 -
ETIM 8.0		Power contactor,